REMARKS

Status of the Claims

- Claims 2-30, 32-37, 39-43, 46-54, and 56-65 are pending.
- Claims 1, 31, 38, 44, 45, and 55 are cancelled.
- Claims 2-22, 24, 25, 27-30, 33-37, 39-43, 46-52, 54 and 56-65 are allowed.
- Claims 23, 26, 32, and 53 are rejected

Amendments to the Claims

- Claims 23 and 32 are currently amended.
- · New claim 63 is added.

Allowable Claims

Applicants gratefully acknowledge the allowance of claims 2-22, 24, 25, 27-30, 33-37, 39-43, 46-52, 54 and 56-65.

Rejected Claims

Rejected Claims 23, 26, 53

Claim 23 was rejected under 35 USC 102(b) as being anticipated by Schuster et al. (US patent 5,2114,592).

In response, applicants have amended claim 23 to replace the word "disposed" with "coated". Amended claim 23 now recites that the magnesium hydroxide is coated on the surface of a carrier particle. Support for this change can be found in the specification at page 10, lines 17-18.

"Alternatively, the MgO or Mg(OH), sorbent material can be coated onto a carrier or substrate particle, such as sand or glass microspheres."

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PAGE 15/18 * RCVD AT 3/15/2005 3:47:17 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/1 * DNIS:8729306 * CSID:505 284 3453 * DURATION (mm-ss):06-50

Shuster et al. do not teach or suggest using a carrier particle **coated** on its surface with MgO or Mg(OH)₂ sorbent material. Since Shuster et al. do not teach all of the elements of claim **23**, as currently amended, the rejection under 35 USC 102(b) is improper and should be withdrawn.

Accordingly, claim 23 is now in condition for allowance.

Claims 26 and 53 both depend from claim 23. Since claim 23 is now in condition for allowance, it follows that dependent claims 26 and 53 are also in condition for allowance.

Rejected Claim 32

Claim 32 was rejected under 35 USC 102(b) as being anticipated by either Galbacs et al. publication or by Schuster et al.

In response, applicants have amended claim 32 to recite that the water has a significant concentration of carbonate, greater then 150 ppm; that the contact time is greater than 2 minutes; and that the contact time is less than 1 hour. The specification fully supports these amendments. The specification states:

"Carbonate, such as calcium carbonate, CaCO₃, is frequently present in water containing high natural arseric levels. Even tap water can contain **significant** concentrations of carbonate (e.g., **150 ppm** in Albuquerque tap water)." See p. 5, lines 17-19.

Support for limiting the contact time to being greater than 2 minutes can be found in Tables 1 and 2. Support for limiting the contact time to being less than 1 hour can be found at page 7, lines 11-12.

Neither Galbacs et al. publication or Schuster et al. teach or suggest that the contact time between magnesium oxide/hydroxide and water with carbonate be limited to being less than 1 hour. The reason that they don't teach this restriction on contact time is the fact that they don't appreciate or understand the problem of undesirable arsenic release when magnesium hydroxide (with adsorbed arsenic)

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converts to magnesium carbonate, when there is a significant concentration of carbonate present in the water. Since the references cited by the Office do not teach all of the elements of claim 32, as currently amended, the rejection under 35 USC 102(b) cannot be supported and should be withdrawn.

Accordingly, claim 32 is now in condition for allowance.

New Claims

New Claim 66

New claim 66, which depends from 32, was added to further limit the contact period of time to being less than 30 minutes. Support for limiting the contact time to being less than 30 minutes can be found at page 7, lines 11-12. As presented above, neither Galbacs et al. publication or Schuster et al. teach or suggest that the contact time between magnesium oxide/rydroxide and water with carbonate be limited to being less than 30 minutes.

Accordingly, new claim 66 is now in condition for allowance.

Conclusion

Applicants have responded to each and every objection and rejection, and urge that the claims as presented and currently amended, including new claim 66, are now in condition for allowance. Applicants request expeditious processing to issuance.

The Office is authorized to charge Deposit Account # 19-0131 for any necessary fees regarding this response, including \$ 50 for one additional new claim, and \$ 790 for a RCE, and \$ 120 for a 1-month extension of time.

Respectfully submitted,

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